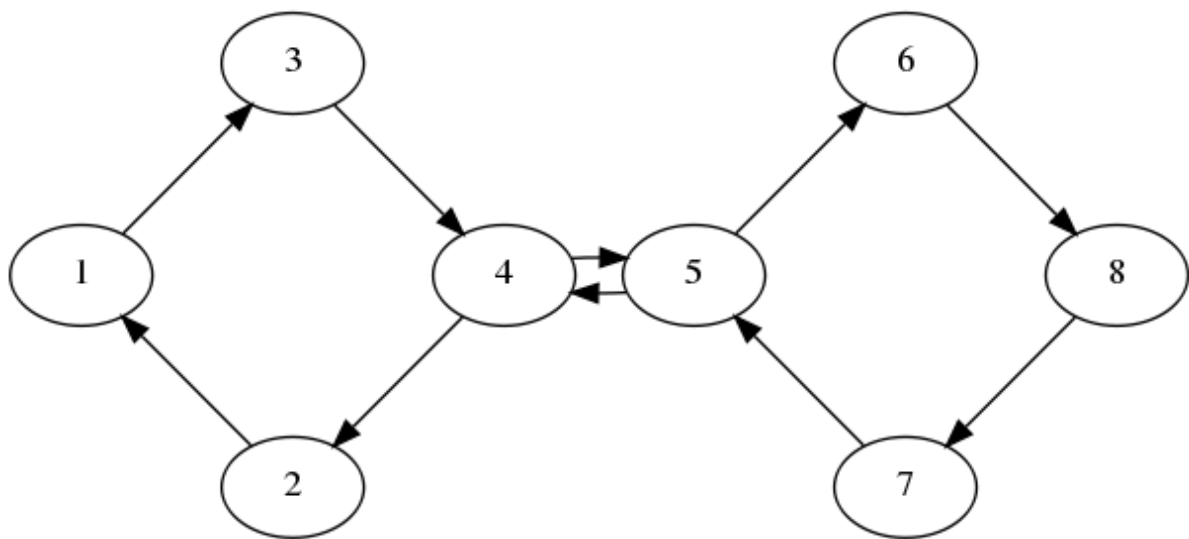
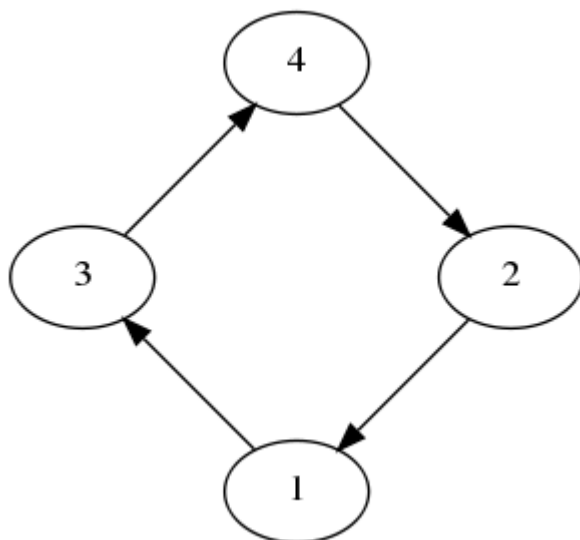


NETWORK 3: DOUBLE RING



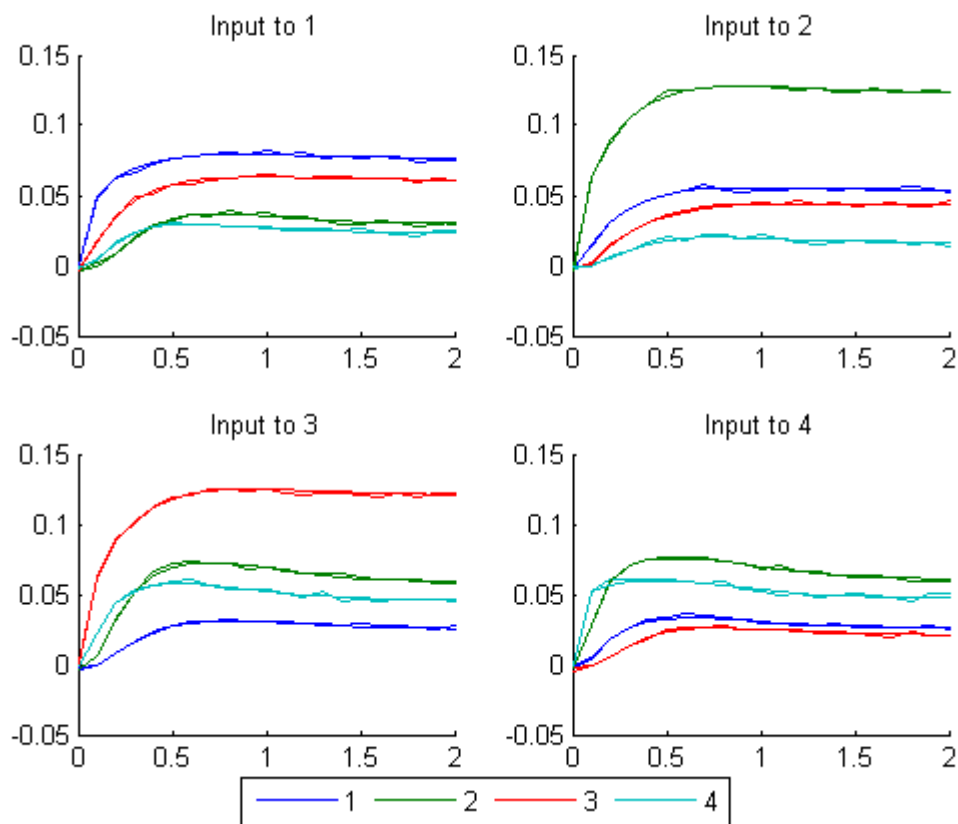
For the structure above, the network with the best AICc score was chosen for the robust control method. For the Bayesian method, we chose structures by varying the z significance level of confidence.

We measured the following sub network:

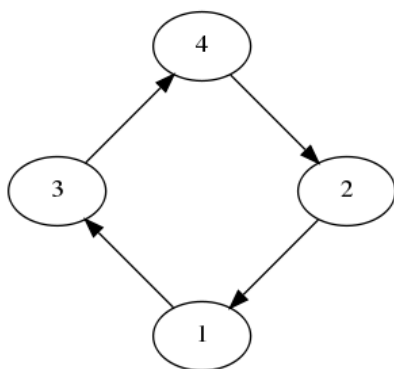


TRIAL 1

SNR of the time series = 32.66



Robust Control Method

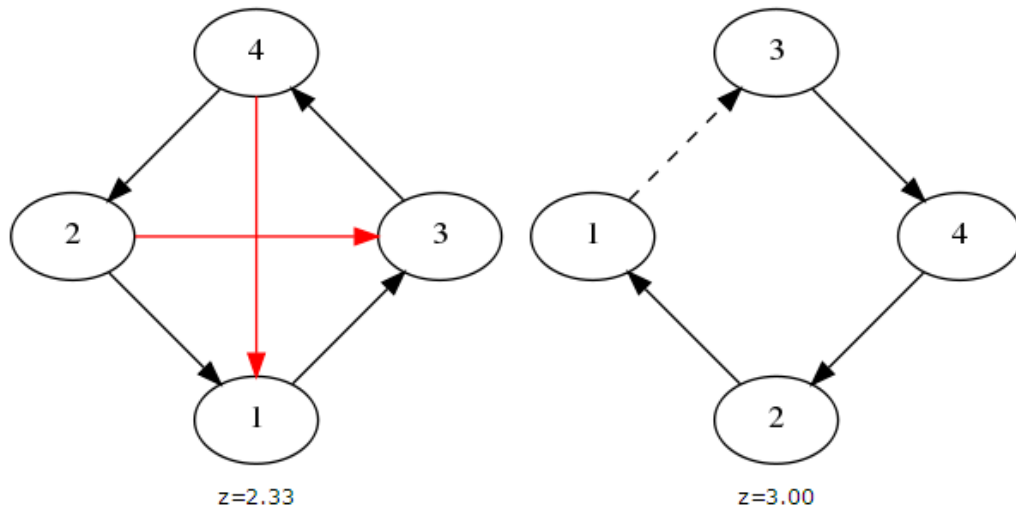


Structure: 010100001010 **Distance:** 0.0363 **AIC:** 0.5474 **AICc:** 4.1837

BIC: -13.2590

Bayesian Inference Method

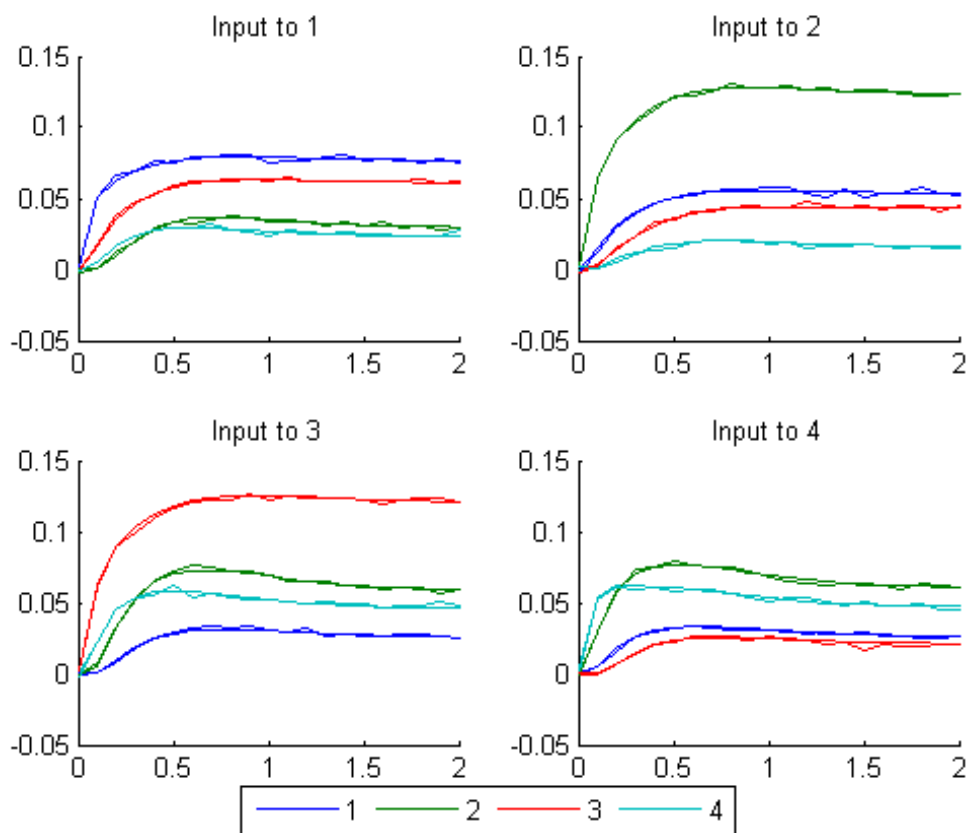
T=80, N=3



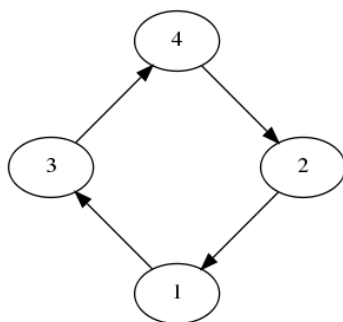
RED LINES= FALSE POSITIVES. DASHED LINE= MISSING CONNECTION.

TRIAL 2

SNR of the time series= 28.91



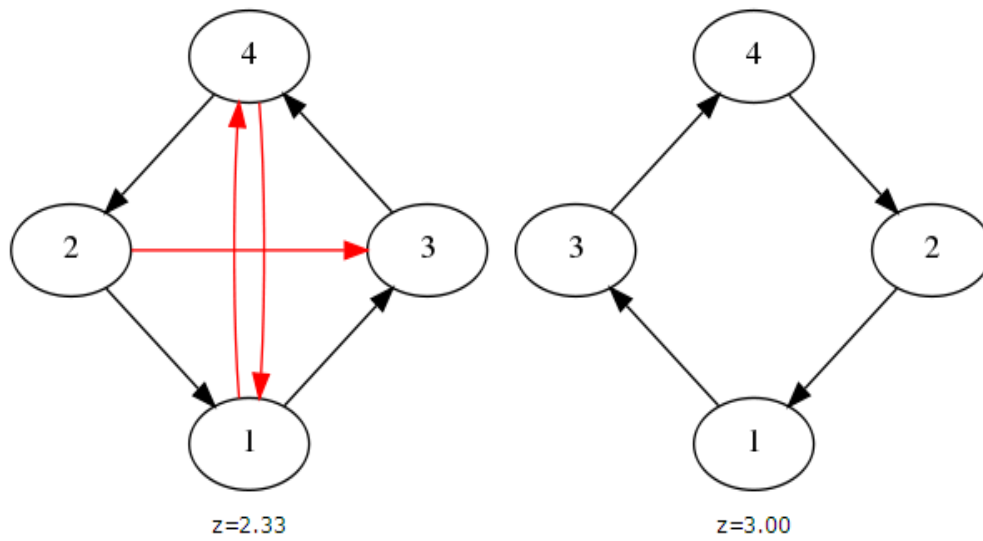
Robust Control Method



Structure: 010100001010 **Distance:** 0.0482 **AIC:** 1.6748 **AICc:** 5.3111 **BIC:**

-12.1316

Bayesian Inference Method

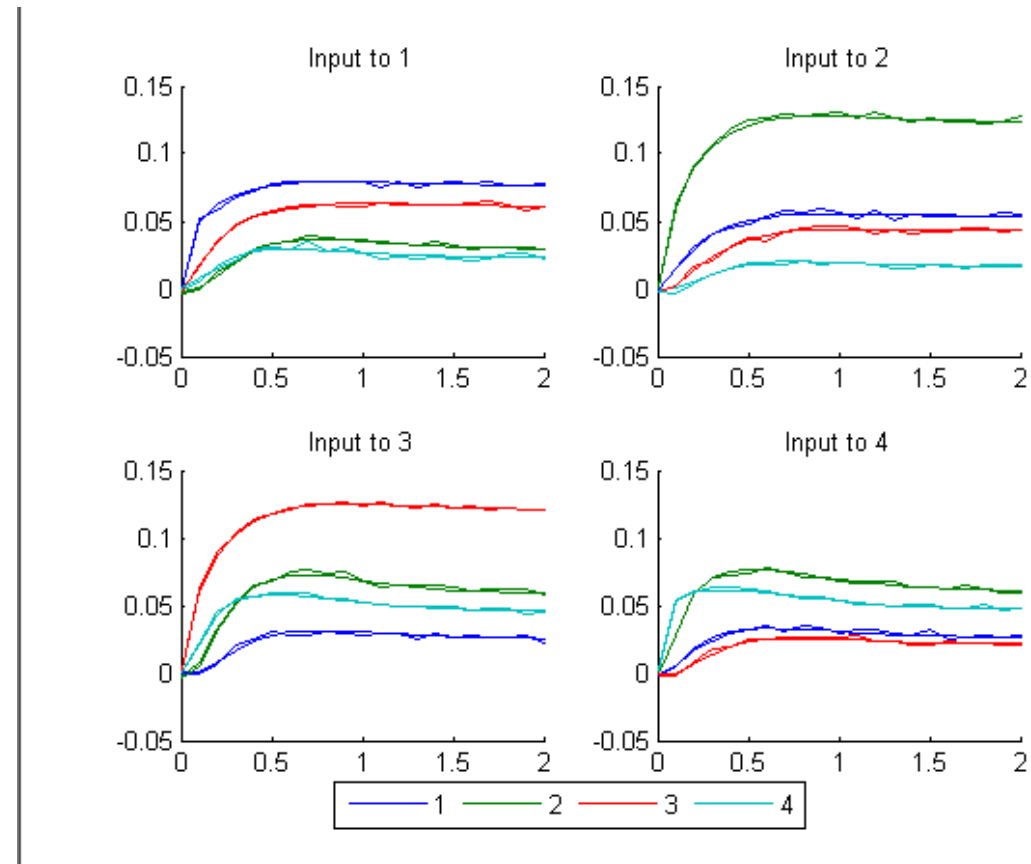


Red Lines= False Positives

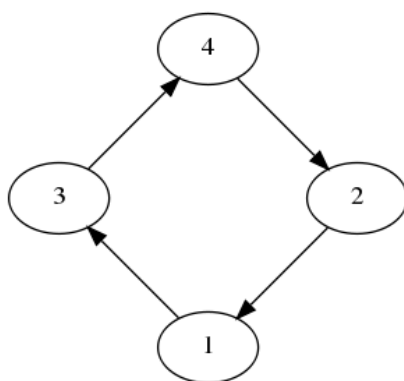
Dashed Lines=Missing Connections (False Negatives)

TRIAL 3

SNR of time series= 27.35

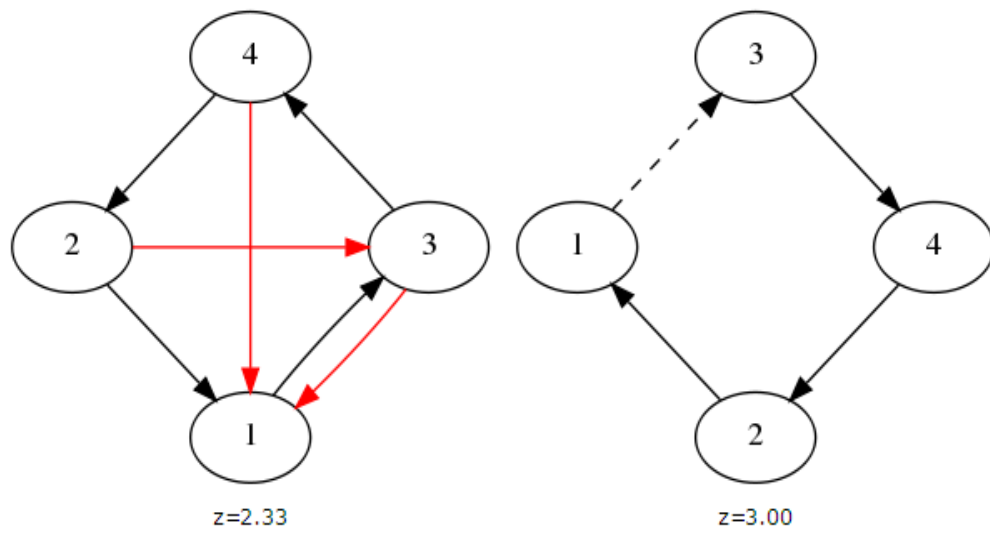


Robust Control Method



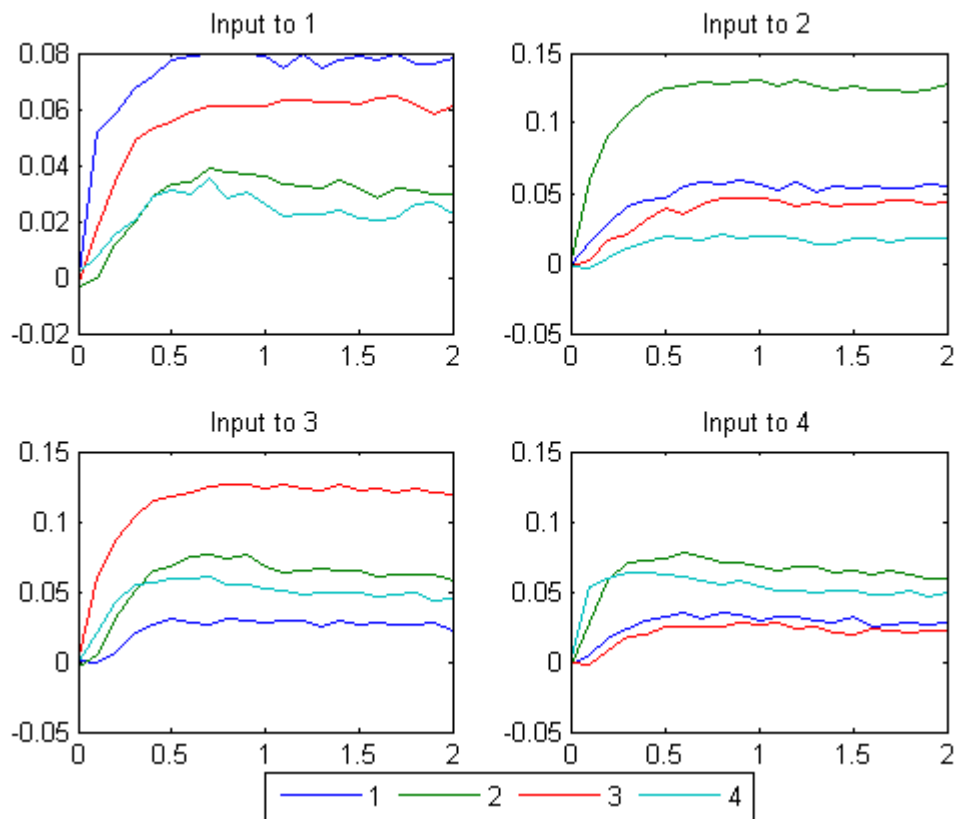
Structure: 010100001010 **Distance:** 0.0764 **AIC:** 3.5211 **AICc:** 7.1575 **BIC:** -10.2852

Bayesian Inference Method

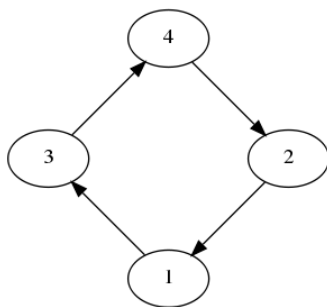


TRIAL 4:

SNR of the time series= 24.62



Robust Control Method

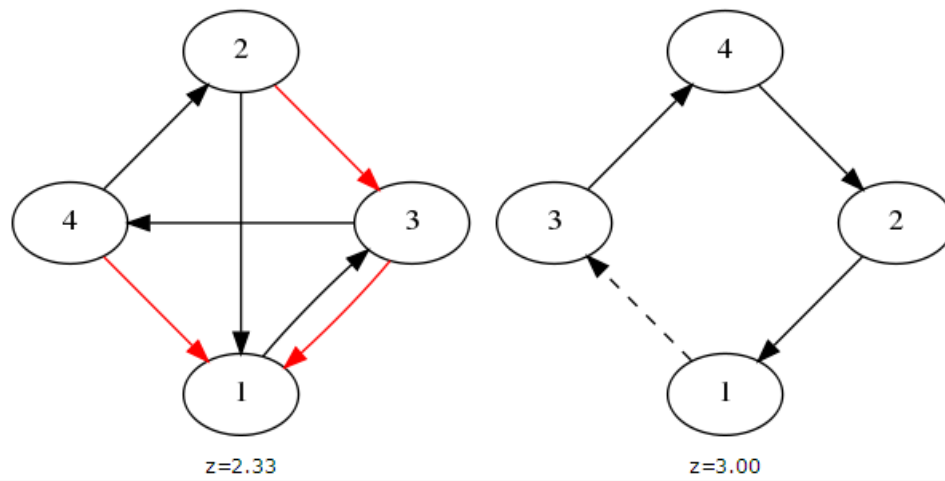


Structure: 010100011010 **Distance:** 0.0939 **AIC:** 4.3438 **AICc:** 7.9801

BIC: -9.4626

Bayesian Inference Method

FOR T=80 and 3 repeats.



RED LINE= FALSE POSITIVE

DASHED LINE= MISSING CONNECTION